We claim:

- 1. An actuator acting as a drive unit for an injector, especially for an accumulator injection system, comprising a piezostack disposed in a tube spring, a top plate and a bottom plate, wherein the top plate of the actuator is fixed directly to an injector housing by means of caulked areas.
- 2. The actuator according to Claim 1, wherein the caulked areas are disposed on the sides of the top plate.
- 3. The actuator according to Claim 1, wherein the caulked areas are disposed on the upper area of the top plate.
- 4. The actuator according to Claim 1, wherein the caulked areas are disposed radially in respect of the outer periphery of the top plate.
- 5. The actuator according to Claim 1, wherein the caulked areas are disposed essentially tangentially in respect of the outer periphery of the top plate.
- 6. The actuator according to Claim 1, wherein the caulked areas are formed from the material of the injector housing.
- 7. The actuator according to Claim 1, wherein the caulked areas are formed from a filler material.
- 8. The actuator according to Claim 1, wherein a surface structure is configured on the top plate with a suitable profile depth for caulking.
- 9. The actuator according to Claim 8, wherein the surface structure on the top plate is configured as partially or wholly circumferential grooves.
- 10. The actuator according to Claim 8, wherein the top plate is configured as a cylinder and the surface structure on the top plate is configured as an external thread.

- 11. The actuator according to Claim 1, wherein the connection between the top plate and the injector housing is formed by four caulked areas.
- 12. The actuator according to Claim 11, wherein the four caulked areas are disposed in such a way that two caulked areas lie opposite each other on the top plate in each instance.
- 13. The actuator according to Claim 1, wherein the top plate and/or the injector housing are made of a tempering steel.
- 14. The actuator according to Claim 13, wherein 42CrMo4 is used as the tempering steel.
- 15. The actuator according to Claim 1, wherein cutouts are provided in the injector housing, at which the caulked areas are disposed.
- 16. The actuator according to Claim 15, wherein the cutouts serve as anchorage points for an electric plug-type connection of the actuator.
- 17. The actuator according to Claim 16, wherein the electrical plug-type connection is configured as a plastic extrusion coating.

- 18. A method for producing an injector with an actuator, whereby the assembly of the actuator to activate the injector in an injector housing comprises the following steps:
- Pre-assembly of the actuator comprising a piezostack disposed in a tube spring, a top plate and a bottom plate,
- Positioning of the pre-assembled actuator in the injector housing by lining up the actuator, especially by lining up the bottom plate with its predefined position and
- Fixing the actuator on the injector housing by means of caulking between the top plate and the injector housing.
- 19. The method according to Claim 18, wherein the material of the top plate and/or the material of the injector housing and/or a filler material is used for caulking.
- 20. The method according to Claim 18, wherein cutouts are formed in the injector housing for caulking and these are used after caulking to anchor a plastic injected electrical plug-type connection.